

MBPL

Modular Base Petroleum Laboratory



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The MBPL is a mobile, trailer mounted, self-supporting laboratory capable of performing selected B-2 level quality surveillance testing of petroleum products. It is contained within two XM822E air-suspension trailers and powered by a 60 kW generator set. The trailers provide environmental control and water supply; and contain test equipment, support systems, supplies, chemicals, and spares.

System Includes

Basic Unit:

- Two (2) XM822E semi-trailers
- 60 kW generator set
- Integral hardwall water tank

Incorporates various utility systems

- Oxygen/Nitrogen/ CO2
- Vacuum/Air Pressure
- Heating/Cooling



Operational Concept

- Function at theatre level
- Provide comprehensive field fuel testing capability

The information provided is generalized information for both labs, A and B.

Contact Information

PM PAWS

www.tacom.army.mil/dsa/pmtaws/pm_paws
COM: (586) 574-4200 DSN: 786-4200
FAX: (586) 574-3988

PAWS Help Line

pawshelp@tacom.army.mil
COM: (586) 574-4143 DSN: 786-4143

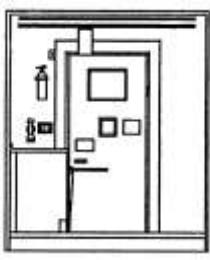
QUARTERMASTER

www.quartermaster.army.mil

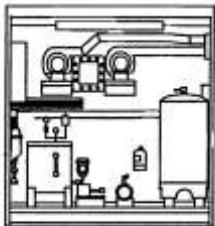




LABORATORY
FRONT WALL



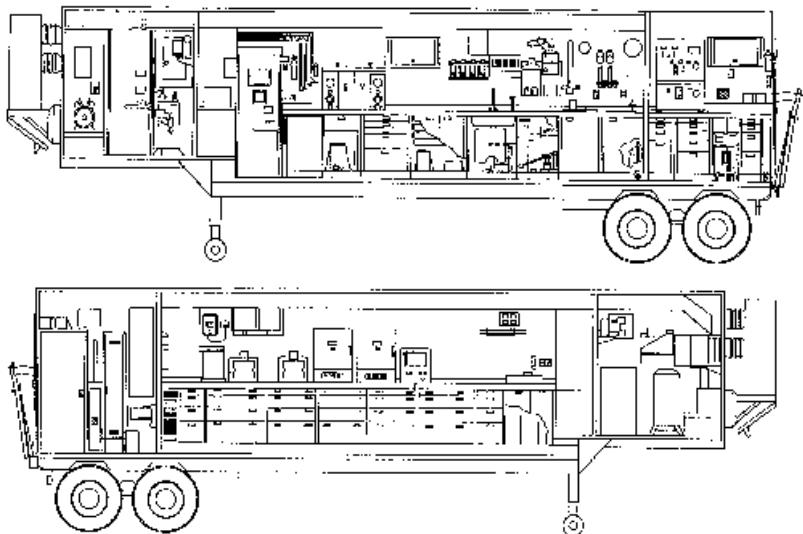
LABORATORY REAR
WALL AND DOOR



MECHANICAL ROOM,
REAR WALL

MBPL

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PROGRAM STATUS: N/A

LIN	NSN	SSN	BOIP
N/A	N/A	N/A	N/A

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Transportability

- Two (2) XM822E1 semi-trailers
- Highway travel to 50mph
- Gravel to 25mph

Environmental Conditions

Storage	-28°F to 160°F
Operation	-25°F to 120°F

Performance

Environmental Control (heating & cooling).....	18,000 BTU/hr (cooling) 18,000 BTU/hr (heating)
Air compressor.....	60Hz, 3-phase, 3-hp motor
Air tank capacity.....	30 gallon
Free Air capacity.....	.58 liters per minute
Water pump.....	.75 gpm at zero total head in feet
Water tank.....	60 gallon fiberglass
Water chiller.....	Remote model, 30 gph, 115V, 60Hz

Dimensions

Exterior

- Trailer
- Trailer Weight

38L x 8W x 11.75H ft

34,000 lb

Interior

- Laboratory
- Mechanical room

27L x 7.5W x 7.55H ft

7.75L x 7.5Wx 6.64H ft